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ABSTRACT

IDENTIFIERS

This booklet, prepared for the Peace Corps, describes the operation of the Volunteer Rehabilitation Project, a handicraft project for handicapped persons (mostly leprosy patients) in Ethiopia. Along with the project description are step-by-step instructions for carrying out a similar project and a discussion of the principles underlying the operation of the project. The report is organized into six sections. The first section is an introduction that provides an overview of the project, describes its main areas of operation, and suggests future directions the project may take. The second section describes the type of training provided to the workers. A step-by-step guide for some sample tasks is included. In the fourth section, the relationship of the project and the public is discussed, with directions for public relations and a procedure for creating a sales brochure. Section 5 focuses on production and salaries, while recordkeeping is the subject of the final section. A list of suggested resource publications is included in the report. (KC)

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GUIDELINES

FOR

DEVELOPMENT OF A HOME INDUSTRY

WRITTEN

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LYNN OLCOTT

ARTWORK

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PEACE CORPS
INFORMATION COLLECTION AND EXCHANGE
REPRINT R 14
MARCH 1981
September 1981

Volunteer Rehabilitation Project P.C. Box 165 Addis Ababa, Ethicia June, 1975

Dear Reader;

This book attempts to describe the operations of the Volunteer Rehabilitation Project (VRP), a handicraft project for handicapped persons (mostly leprosy patients) in Ethioria:

Our aims in producing this book are two-fold.

For our own purposes, the assembling of this information greatly facilitates the standardization of operating procedures and serves to more easily acquaint new-comers to the project with various systems used.

and, we recognize our responsibility to share what we have learned with others involved and interested in reaching the same goal:

Of helping to establish a setting in which handicapped persons can, by modifying known skills and learning new skills, earn a living vage; thereby allowing handicapped persons to be economically self-sufficient members of society.

The materials in this booklet have not been copyrighted. Persons wishing to translate it into other languages are encouraged to do so. We request that copies of translated material be sent to us - it will be valuable for our international visitors. If the contents are reproduced (in what ver language) we ask that credit be given to ALERT, since it is through their assistance and rescurces that copies of this booklet are available for distribution.

We hope that the information contained here will be useful to you. We will very much appreciate any comments, advice and other forms of communication we receive from readers of this book.

> Sincerely, Volunteer Remabilitation Project



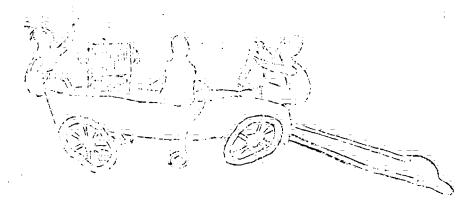
DEDICATION AND ACKNOWLEDGMENTS

n han licraft in ject for handledital lersons is a very fragile entity when viewed in the centext of national and world economy:

The survival of this project is due to the talent; support and commitment of individuals and agencies too numerous to mention here. It is thanks to the efforts of these interested prople that this fragile entity does exist:

This book is dedicated to all those who have believed in the aims of VRF and have noted supportively an that belief.

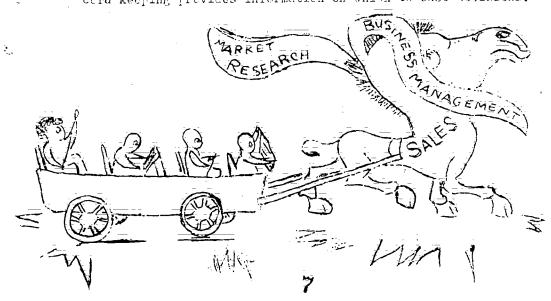




PRINCIPLES

During the life of the project, certain principles have leveleded which are recurrent themes in this book. For your convenience, they are summarized here.

- i. Training is useful only if the trained can be assured of regular employment and a cash income upon completion of training: (What a person is trained to do should be determined through thorough market research.)
 - A: Ay training course should emphasize the abilities of the participants (rather than their disabilities):
 - F. Any training course should encourage workers towards responsibility and self-sufficiency in the work situation.
- II. The level of sales determines the level of production.
 - A. The level of balos is determined by the appropriateness and quality of the product.
 - B. Quality standards and other information must be mutually understood by management and labor.
- The circulation of money and goods is maintained by the application of business management skills. The rough record keeping provides information on which to base decisions.





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SECTION ONE - INTRODUCTION

I. <u>Overview</u>

- A. Background
- B. I roducts
- 3: Management
- b. Thysical Setting
- E. Equipment
- F. Circulation
- G. Finances
- H: Language

::. Main Areas Of Operation

- A. Aspects of Marketing
- 8: Aspects of Production
- C: Aspects of Training

III. The Future of the broject

- A: Fresent Emphasis
- B. Flanned Direction
- C. Influences

A. Background

The project began in 1970 as a means of providing on income for a few destitute women with dependent children by takening them a marketable skill. These women were able to evergome their physical handicaps and learn to croshet and to produce beautifully embroidered clothing. However, because of the prevailing negative attitude towards beprong at Sthimpia, learning these skills did not provide rerability fation for their social handicaps. They could now return to their home villages and turn their skills into a cash income, nor could they afford to rurchase ray saterials to make these items.

The project has expended to provide raw materials (purishmed totally whenever possible), production and design supervision and marketing mervison for the ingreased number of participants, male and female. During the five years of the project's existence; the number of craftsmen ascepted and trained has reached 900 Those people are former or current patients of interest lenebeword Hospital located in Addis Ababa, capital city of Ithiopia, and some are members of patients' families: Indicate Lenebeword Hospital is the home of AleRT (All Africa Leprosy Rehabilitation and Training Contor)

B. Products

The craftsmen of VRP produce a veriety of handmade items which sell primarily to the foreign community living in Addis Ababa. Most of the products are standardized, that is they are made in standard sizes and designs. The products made by the project vary to adapt to the changing demands of the market, but the main areas of production are:

Hand-woven rugs and tapestries. St

Knitted and crocketed items from hand pun cotton.

Hand-woven cotton fabrics.

Embroidered dottom clothing.

Towels, table linent, pursue and other accessories.

Stuffed toys.

Baskets.

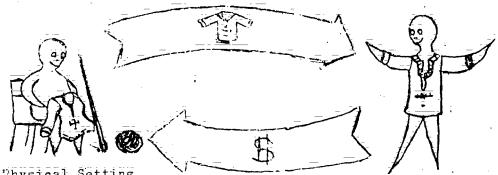


The products reflect a bland of modern dedign ideas and raditional Ethiopian styles, the 'trademirg' itom is a tunic (shirt) made from hand-woven cotton and embroid red in a variety of battern and color combinations.

 $\bar{1}i$

C. Management

The project has been administered by a series of women, all non-Ethiopian but one and all working in a volunteer capacity. Fresently guiding the project are a dozen women who work part or full-time as unpaid managers, teachers and consultants. The aim of these volunteers is to coordinate the skills and work habits of one group of people (the craftsmen) and the interests and buying habits of another group of people (the buyers) so as to provide a living wage for the craftsmen.



D. Physical Setting

Of the 90 paid participants of the project, roughly 2/3 work in their homes, coming to the project center to take supplies and return completed work. The remaining 1/3 work in space provided by the project. The physical facility consists of:

- t. Three rooms and one small building located on the ALERT compound and made available to VRP at no cost.

 The rooms are used for teaching, distribution and acceptance of work, storage and office space. The building is used as a shop where customers may buy products of VRF and other rehabilitation projects.
- 2. A house in the nearby village rented by the project.
 The house provides workspace for the carpet weavers and facilities for washing the cloth and yarn products.
 Later other sections of the production unit will move there:

E. Equipment

Most of the following items have been purchased by the project using donated funds. Some have been given to the project and other items are borrowed.

Sewing	Machines (non-electric)	•5
	Loom	
Adding	Machine	.1
Carpet	and tapestry looms	.8
Miscel.	laneous furniture.	



F. Circulation

The craftsmen are provided with raw materials and give training and instructions in what to make:

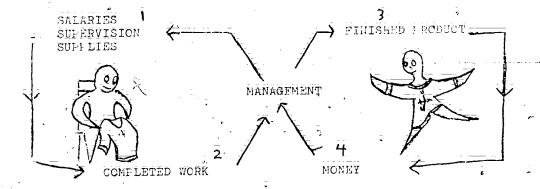
(see below, number 1)

The completed work is checked for quality and propaged for naio: (see bolow, number 2)

Finished products are sold in a shop managed by the project on the ALERT compound and in other sales catlets in the city

[(see below; number 3)

Honey from sales goes to pay salaries, purchase supplies and cover operating costs. Most workers are paid on a piecework system: (see below, number 4)



G. Finances

During 1974 the project took in between 58 and 59 thousand dollars, 93% in sales and 8% in gifts and donations. The project spent slightly less than that amount, 53% in salaries, 42% in supplies and the remainder to gover operating costs (Because does not pay administrative balaries and much of the work space is rent-free, the operating costs are unusually fow.) There was a 'profit' of 600 dollars. Those liques and all other monetary amounts in this book are expressed in Ethiopian dollars.

H. Language

The volunteers presently working in the project represent seven nations. They use the language of English to communicate with each other. The participants represent several tribes and a variety of linguistic backgrounds and use the national language; Amharic, to communicate with each other. Some volunteers are atudying Amharic and some participants have studied English in school (in the Ethiopian achool system English instruction begins in grade 3);

About half a dozen individuals are sufficiently fruent in bethe languages to act as translator: These people are werning together to standardize bi-lingual (Amharic and English) record keeping systems in the production/training unit.



11. MAIN_AREAS OF OPERATION ... MARKETING PRODUCTION TRAINING

A. Aspects of Marketing

- Market research and public relations. (Knowing what the buyers want and letting them know that the items are available from the project).
- 2. Staffing and managing the main salus outlet for the project; the Craft Shop and arranging for some proucts to be sold in other sales outlets in the city.

The market influences all phases of the project because it is mainly money from sales which provides funds to purchase supplies; pay salaries and cover operating costs and training expenses. The preferences of the buyers determine the types of items produced and their designs. The level of sales determines the level of production.

3. Aspects of broduction

- 1. Establishing a production schedule based on sales and communicating instructions to craftsmen.
- Furchasing raw materials and distributing them to craftsmen.
- Coordinating piecework salaries and quality standards to maintain strict quality control on products.
- 4. Frequency completed work for sale.

C. Aspects of Training

- Selection and placement of trainers from within the project or from new applicants.
- Froviding materials, equipment, instruction and practice needed to allow trainees to learn the new skills.

In the past the emphasis of training was on taking new members into the project and teaching them a handicraft skill. From the administrative point of view, the project has reached a saturation point; and cannot expand in its present structure. At this time, the main teaching efforts are directed towards training participants already in the project to assume management responsibilities.



III: THE FUTURE OF THE PROJECT

A. Present Emphasis

The goal of the VRF is to become an independent cottage industry. To continue progress in this direction, the volunteer now staffing the project are concentrating their efforts in these areas:

- t. Completing the process of registering the project with the Ethiopian Government.
- Training participants within the project to assume management responsibilities.
- 3. Increasing sales to build a working capital for the project.

B. Planned Direction

Though participants are being trained to assume responsibilities for management services now provided by volunteers; the overall administration of a project of this size and type requires professional skills in the areas of appropriate work allocation and business management. No new trainees can be accepted until the project receives assistance in the form of paid, professional staff.

The volunteers feel that training and production should operate separately; each unit managed by a paid; professional supervisor.

The training unit, managed by professional staff, could offer thorough screening services and specialized training programs tailored to the abilities of the persons selected. The production unit, supervised by a business manager/accountant team, could function as an independent business. Separation of the two units under prefessional staff would:

- 1. Relieve the production unit of the financial responsibility of training.
- 2. Allow the training unit to accept new applicants.

Craduates of the training program could be placed in the production unit as employees. This would complete the flow of trainees from training to employment and provide a model rehabilitation home industry.

The project could still receive volunteer assistance without being dependent on it.

C. Influences

Whether or not this division takes place depends upon several factors, the most critical of which are:

- 1. The status of the project after registration.
- 2. The granting of assistance in the form of staff or staff salaries (for a trial period) and a training budget from sources outside VRF.
- 3. The ability of the project to continue to adapt to the demands of the available market.



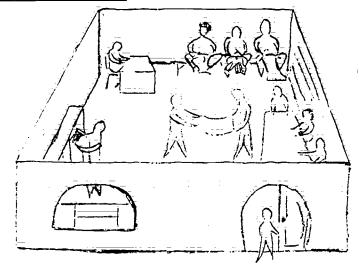
SECTION TWO - PROJECT | ROFILE

- I. The Project Center
 - A. Services for Craftsmen
 - B. Responsibilities of Project Center Staff
- II. Information About Departments
 - A: General
 - B. Specific
- III. Feople
 - A. Available Information
 - B. How to Assemble Information About a Group of People
 - C. Social Welfare Programs





I. THE PROJECT CENTER



The project center consists of a combination office/classroom and a storeroom.

4. Services for Craftsmen

Craftsmen come to the project center to:

Receive raw materials and work instructions.

Return completed work.

Have work checked for quality specifications.

Receive payment for completed work.

Receive raw materials and instructions for continued production.

B. Responsibilities of Project Center Staff

(Project center staff includes both volunteers and those participants who are performing management services.)

Purchasing raw materials.

Distributing materials to craftsmen.

Communicating instructions to craftsmen.

Maintaining quality standards.

Supervising salary payment.

Freparing finished products for sale.

Record keeping.

8

II. INFOR ATION ABOUT DELARTMENTE

A. General

The iollowing information does not distinguish between part and full-time workers and stuents and independent workers. Several participants are multi-skilled. Each worker is listed by that work which is his or her major source of income. The crechet department is not listed as it has recently been closed and its members absorbed into other departments.) Total participants, 10.

- 1: Working in their homes:
 - 10 spinners
 - 17 knitters
 - 30 embroidarers
 - 2 basket makers
- 2. Working in space provided by the project:
 - 11 sewing room sorkers
 - l design printer
 - 10 wood compat and throathy wedvers
 - 1 cotton rug wenver
 - l cotton fabric weaver
 - 3 Mhintennice Workers (lhurdry, etc.)
 - 4 student managers

B. Specific

1. Sewing Room

The sewing room is the most complex of the VRI departments because of the variety of operations performed there.

- a. Froducts: The workers in the sewing room make clothing, table linens, pillows, handbags, dolls and other toys. Some products are completed there and others are sent on to be prepared for the embroiderers. A few products return to the sew-room for handsewing or come in from other departments for linings.
- b. Tools and Materials: Most cloth items are made from buloko, heavy hand-woven cotton which is purchased in bulk. The buloko is made at a sister rehabilitation project which also employs former or current ALERT patients. Items are sewn on non-electric sewing machines.
- c. Patterns: The clothing patterns used previously were based on commercial sewing pattern sizes. The sewing room has recently changed to a small/ medium/larg size system for clothing. Fatterns are made from cloth (the edges of which have been zig-ragged to prevent raveling) or from heavy paper.
- d. Quality Standards: Because of the nature of the buloko, it is essential that the cloth be cut exactly on the grain and sewn properly.

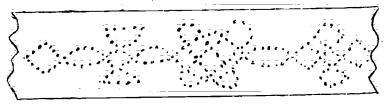
2. Drawing and Printing Department

- a. Products: In this department cloth items are prepared for the embreiderers. A variety of patterns and designs are outlined on partially sewn items in washable ink.
- b. Process:

Drawing - Straight line designs are drawn on cloth according to centimeter measurements:



Printing - A piece of plastic in which holes have been pricked to form a design is placed over the cloth. Ink is brushed over the plastic and seeps through the holes onto the cloth. The plastic is removed, leaving dot marks for the embroiderer to follow.



c. Quality Standards: Designs are checked for exactness of placement on the cloth, clarity of marking and general accuracy.

3: Embroidery Department

- n. Freducts: Designs are embroidered on clothing, table linens, handbags, pillow covers and other items.
- b. Tools and Materials: Embroiderers are given color patterns (done in water color paints and encased in plastic) which matchthe shape of the pre-marked designs on the cloth. They receive thread in colors which match the color pattern.
- c. Process: Two kinds of stitches are used, a chain stitch for designs and a blanket stitch for edging. Embroidery is a traditional Eth. spian art.
- d. Quality Standards: Finished embroidery is checked for exactness in following design lines, exactness in reproducing the color pattern and evenness of stitch tension. VKF is planning to replace the water color designs with emboidered samples to give embroiderers more exact patterns to follow.



4: Spinning Don Graces

- a. Production The principle hand handspun cotton yarn and are abil to produce thick and thin varieties of yarn.
- b: Price ... Pire: the deeds must be removed from the raw contain. The stand of collect are formed into yarn with one had the correct around a worden spool held in the other hand. Cottok specially it a transferal Ethiopian art.



The finished without seed frage of and evenly open to avoid the sking and weak spots. The spinitry watch for discolored which when seed become more discolored, the sale value of items and from the potton yarn.

9: Knitting D. Orrdons

- a. <u>Francisi</u> The milit remains sook, and puil-over sweaters for admits and children.
- b. Main rials: The products are knitted from hand-spun cotton yard hade to the apinness combined with a commercially made cotton raised to add strength and provent stretching.



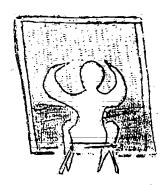
d. One inv Standards: The finished lives must conform to size measure— Sente and be knitted evenly. In the case of sweaters the armhole adminished for seams and button holes are also checked. The knitters must witch for discolored yarn (which sometimes escapes the notice of the spinners):

6. Wool Carriet and Tamestry continuent

- a. Indiversi he carpet wayers produce six sizes of rugs bearing three basis durigns. Color variety depends on available weel. In addition to standard sizes, very large carpet. Fre woven to special order sizes.
- b. Tools and Naturials: The weavers use local wool and heavy cetter weep. They work at upright metal looms.
- c. Process: A triditional Mthicpian flat-weaving process (semmak) is used.
- d. Quality Standards: Rice and tapestries must meet mean unlast attandards for size; shape and symmetry of decien.

7. Cotton Rug Wenver

The co.ton run weaver produces two sizes of run. He uses lightweight cotton warp on a metal loom and the same weaving process as the wool weaver. The cloth strips which he uses are prepared in the sowing room: Type of cloth and call a depends on available supplies.





8. Cotton Fabric Weaver

The cotton fabric weaver was trained at the Awassa Braining. Center, Hand-loom Section in Awassa, Ethiopia.

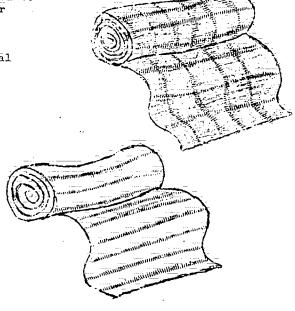
He is able to produce several varieties of cloth weights and designs.

Some of his cloth is used to make VRP products, other piaces are sold by the meter.

Using a three-dimensional fabric loom, he applies traditional Ethiopian cloth weaving skills.

The finished cloth is examined for quality of weave and symmetry of design.

It is measured for total number of meters.

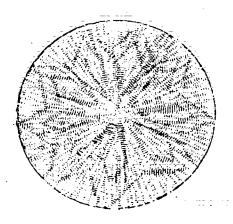


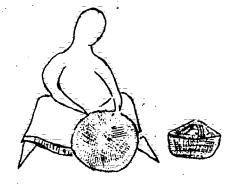
9. Basket Makers

The basket makers produce small, round covered baskets and large, round woven trays.

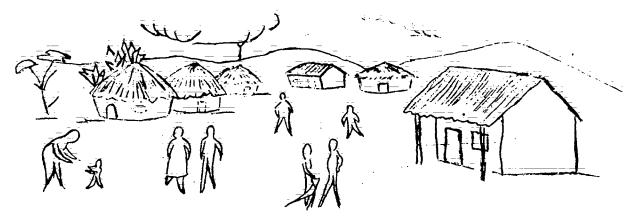
They purchase their own grasses, using both dyed and natural shades. They use metal needles and traditional processes to produce the woven items.

Finished products are checked for evenness of weave and symmetry of shape and color design.









III. PECFLE

Ethiopia has an estimated population of 26 million persons. Though figures vary, an estimated 1% of the population, or 260,000 have leprosy. ALERT at Frincess Zenebeword Hospital is one of the centers where the disease of leprosy is being researched and treated.

A village has sprung up outside the ALERT compound called addis Keteme (New Town). Its residents (4-5 thousand persons) are former and current ALERT patients and their families. Not of the VRF participants and their families live in Addis Keteme. They have become part of VRP by referral through the ALERT social work department or through other ALERT personnel. Not all referrals can be accepted. There is now a waiting list of over 200 persons. The disadvantage which leprosy patients face in finding work is even more significant when considered in the context of the general unemployment problem in the Addis Ababa area.

A. Available Information

1. Information About Individuals: In 1974 a volunteer staff member accompanied by a bi-lingual participant visited the homes of all workers and interviewed them. The information collected was organized on cards and the cards were grouped by department. The cards looked something like this:

NAME
SEX
AGE
LEPROSY/NON LEPROSY
PROVINCE OF ORIGIN
LENGTH OF TIME IN ADDIS ABABA
MARRIED/SINGLE
CHILDREN/OTHER DEPENDENTS
JOINED PROJECT WHEN?
EDUCATION

OTHER

PRESENT WORK



2. Information About VRF Farticipants as a Group:

at present there is revoluteer staff member qualified to describ the project participants with medical or sociological accuracy. In addition, the available information is in need of up-aating. The statements which follow are general and are not meant to represent professional statistical research.

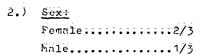
a. Medical Information:

- 1.) Participants with leprosy.....3/4 Participants without leprosy....1/4
- Roughly 20% of the participants have physical handicaps which significantly limit the kind of w rk they can do within the project, and any participants with visible signs of leprosy would have difficulty securing employment outside of a sheltered workshop of this kind.

b. Fersonal Information:

1.) hge:

Twenty years or Nincteen years



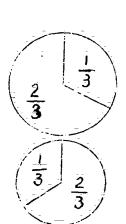


There are slightly more single persons than married persons working in the project. The number of dependents supported by each craftsman is difficult to determine accurately because of the complexities of the Ethiopian family living unit and instances where more than one family member is employed; but estimating from the available information, craftsmen support an average minimum of two dependents each. This means that project sales effect the economic condition of at least 270 persons. Throughly studied, the number would probably be much higher.

4.) Elucation:

Less than fourth grade 3/4 Fourth grade or more.....





- B. How to Assemble Information about a Group of People
 - 1. The steps below show how the information found on the preceding page was gathered and organized.
 - a. Decide what information is needed.
 - Collect information about individuals. b.
 - C. Make a chart with categories or columns for information.
 - Transfer information about individuals to the chart. d. (This puts the information in a form that can be seen all at once.)
 - Examine the chart and use the collected information to form conclusions about the group of pepple; based n the original need.
 - Make changes in the format and collect more information if necessary.
 - 2. To demonstrate these steps, an example project will be used. Project Example is a sheltered workshop which has 50 participants. The project produces baskets, woven cloth and clay dishes. Some of the workers are handicapped by leprosy and some by tuberculosis. The manager of Project Example, Ato Micael (Ato is the Amharic equivalent of Mr.) is new. He wants to find out more about his employees. He discovers that all the personnel records are lost. Ato Micael must collect the information again and compile it.
 - a. Ato Micael wants to know these things about his workers; How many are male and how many are female? How many are twenty or older? nineteen or younger? How much education have the workers had? How many have leprosy? Tuberculosis? What is the total number of dependents supported by the project? The average per
 - b. Ato Micael decides to make a new information form and to interview workers to collect information about individuals. He wants to know these things about each one:

craftsman?

- 1.) Name
- 2.) Sex
- 3.) Age
- 4. Family Information
- 5.) Education
- 6.) Previous Work
- 7.) Other Training
- 8.) Length of Time with Project 9.) Present Work / Department
- 10.) Other Skills Known Within Project
- 11.) General Health
- 12.) Specific Handicap
- 13.) Type of Work Recommended for This Person.
 - 14.) Type of Work to be Avoided

The wording of these items will vary with the language in which the interviewing is done. If the interviewing and record keeping are in different languages, research is needed to coordinate meanings of the two language patterns.

Ato Micael interviews the first worker and finds that it takes about 15 minutes. If each interview takes 15 minutes and there are fifty workers, the interview process

will take about 750 minutes, or 12% hours.

to Michel plans two and a half days for interviewing and half a day for transferring the information to the chart he will use to organize his findings.



c. After an information card has been completed for each individual, Ato Micael makes a chart which looks like this:

	(SEX)		(AGE)		(EDUCATION)		(HANDICAF)(FAMILY)	
	М	F	19-	20 -	0=4	5-8	9+	LEP	TB	DEPS.
Workers	;				#***.#. 4					
		-							;	
Totals		<u>'</u>								

- 1. He looks at the information card for the first worker. He sees that the worker is a woman (item #2) who is 26 years old (item #3). She supports her mother and two children (item #4): She has been to sixth grade (item #5) and is being treated for leprosy (item #12).
- 2. He transfers this information to the chart he has made. To save himself time in addition, he uses a tally mark system. (1=/, 2=//, 3=///, 4=///, 5=////, 10=//////)
 The information from the first card looks like this:

		<u></u>									
_		M.	Ē	19-	20+	0-4	5-8	9+	LEP	TB	DEPS.
	Workers		<i>1</i>		1		<i>i</i>		1	\mathcal{I}))
						·	i i		(A)		
7	otals		_				:			A	

Ato Micael continues to make tally marks on the chart which represent information from the cards. In this way he records the sex, age, education level, handicap type and number of dependents for each of the fifty workers.

When Ato Micael completes his tally process, he adds the marks to find the totals. His totals are shown below.

Male - 30 persons Sex: Female - 20 persons

Nineteen years or younger - 10 persons Age: Twenty years or older - 40 persons

Education: Fourth grade or less - 35 persons Fifth grade to eighth grade - 10 persons Ninth grade or more -75 persons

Handicap: Leprosy - 20 persons Tuberculosis - 30 persons

150 dependent persons (financially dependent on craftsmens salaries. This Family: number does not include workers.)

These totals are expressed in numbers but they can also be expressed in fractions and percentages, as the chart below

CATEGORIES	TOTALS				
	Numbers	Fractions	Percentages		
Male	30	3/5	60%		
Female	20	2/5	40%		
19-	† 10	1/5	20%		
20+	† 40	4/5	80%		
0-4th	35	7/10	70%		
5th-8th	10	2/10	20%		
9th +	5	1/10	10%		
Lep.	20	2/5	40%		
T.B.	30	3/5	60%		

Dependents: A total of 150 dependents, or an aggrage of 3 dependents per salaried worker.

Now Ato Micael looks back at his original questions and refers to the chart above to answer them.

How many are male and how many are female?
How many are twenty or older? Nizeteen or younger?

How much education have the workers had?
How many have leprosy? Tuberculosis?
What is the total number of dependents (besides the craftsmen) supported by the project? The average por craftsman?

- f: Atc Michael later decides that the information about the group is too general and he made more specific information.

 He wants to know how many workers in each department are made and how many are female.
 - 1:) He sorts the information cards into groups by department.

 Rosket makers 23

 Cloth weavers 16

 Lotters 11
 - 2.) He makes a new chart and transfers the information in the same way as before except that he writes the totals in each box of the chart instead of at the better.

DEFARTMENTS	MALE	PEM.LE	
Basket makers	744 744 11 12	7774 7774 1	_ i i
Cloth weavers	744 744 1111 14	, 77	2
Potters	/// <u>ā</u>	744 111	8

3.) To find other information and answers to other questions ato Micael changes the top of the chart (information categories) and the side of the chart (grouping categories).

How many basket weavers have finished ninth grade?

How many cloth weavers are nineteen years old or younger?

Which department supports the most dependents?

How many women are leprosy patients?



C. Social Welfare Programs

1. Medical Treatment:

Participants who are or have been patients of ALERT receive free medical care from Princess Zenebeworq Hospital. One of the volunteers, a trained nurse, performs first aid treatment and is available to discuss medical problems and questions with partipants. More serious cases are referred to ALERT medical staff.

2. Financial Assistance:

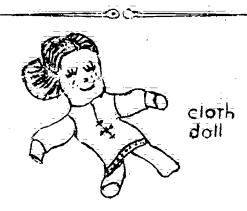
Participants have formed their own community loan society, as is customary in Ethiopia. In the past the project occasionally loaned money (at no interest) to participants, but this is no longer necessary.

3. Childcare:

The volunteer nurse discusses childcare methods with mothers in the project and frequently visits the homes in which new babies have been born. In the earlier days of the project mothers with babies were give Fa Fa, a high nutrition baby cereal which was developed by the Ethiopian Nutrition Institute. As salaries stabilized and mothers could afford to purchase the Fa Fa, distribution was discontinued.

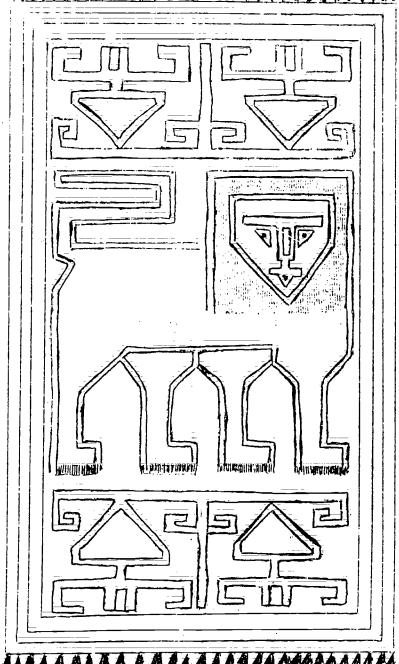
4. Education:

Two participants teach math and Amharic literacy classes at the project center two days per week. Attendance is voluntary.





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SECTION THREE - TRAINING

I. VRP Training Unit Considerations

- A. Specific Neel
- B. Selection
- C. Policy

II. Types of Skills

- A. Known Skills
- B. New Skills

III. General Methodology

IV. Sequential Learning Steps for Sample Tasks

- A. Learning to Cut Cloth Products
- B. Learning to Nachine Sew
- C. Learning to Draw Designs
- D. Learning to Frint Designs
- E. Learning to Embroider
- F. Learning to Knit
- G. Learning to Use Inventory Cards

V. Considerations for Starting a Handicraft Project for Handicapped Persons

- A. Describing the Froject Administratively
- B. Describing What the Project Will Do for Individuals
- C. Market Research
- D. Framework
- E. Methodology
- F. Policy
- G. Budget



WRF AT FRESENT

forticipants already trained in a handieraft skill area and working with minimum supervision	7 6
Participants learning a handieroft skill	. 6
Participants learning a management skill	. 8
·	90

The six participants learning a handleraft skill receive instructions and materials as part of the production unit.

They must meet the same quality standards as the trained craftsmen.

The eight participants learning management skills are already proficient in one or more handicraft skills and are now learning to take over various management responsibilities (work distribution, quality control, inventory etc.).

I. VRF Training Unit Considerations

A. Specific Need: What kind of work needs to be done?
What is an exact description of the task?

Exactly what skills and abilities must the trainer aiready have to learn this new work?

Example: Cutting requires strong hands.

Drawing requires a working knowledge of the metric system.

Inventory work requires literacy in English and amhoric.

B. Selection: What persons are available to learn the work.

Of these persons, who possesses the necessary skills and abilities to learn the work?

Of those who meet the work requirements, which person possesses the attitude and social behavior needed to help him succeed?

Example: Worker A and worker B are equally qualified to learn how to hand out work to others in their department. Worker B is older and more respected by other workers.

C. Policy:

By what methods, for how long and by whom will the trainee be taught?

By what methods or standards will his work be evaluated?

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II. Typon of Skith:

VW participants are being trained in traditivial craft skills (eg. spinning, weaving), contemporary craft skills (eg. machine sewing) and management skills (eg. propuring raters):

From the standpoint of training individuals to perform tasks; more are two main skill areas:

- A: Known Skills: The tank requires a set of skills which the individual already knows; but which protably need some modification in design or quality specifications to become selection.
- B: New Skilln: The task requires a set of skills with which the individual has had no previous operational experience.

III. General Methodology Used in VII Training

Whether for a handicraft skill or a management skill, the basic teaching principles are the same. One trained works with one teacher, communicating in the national language directly or through an interpreter. If knowledge of English is part of the work, that language is used. Depending on the skill, both participants and volunteers act as teachers.

The trainee is given crientation information about the work and the purpose of doing it. The task itself is broken down to simple sequential steps. As the teacher explains and demonstrates each step, the trainee copies the process. An integral part of training is helping the trainee recognize, correct and learn from his mistakes. Practice of this type centinues until the trainee can perform each step correctly under supervision. Then the trainee practices independently:



IV: Sequential Learning & pr Cri Striple Tasks

- A. Learning to Cat Moth for VKI Products
 - 1. Crientation at eleth types and weights, eleth fiber atrection and identification of flaws.
 - 2: Practice outling straight straight of cloth on the chain.
 - 5. Practice cutting stripe of cloth on the bias (diagonally).
 - 4. Orientation to rending the sowing room production schedule where the items to be cut each week are pictured accompanied by size symbols when necessary and a number which indicates how many are to be cut.
 - 5. Practice in transfering information from the production achedul: to the pattern box and selecting the across pattern:
 - 6. Demonstration of pattern assembly.
 - Fractice in pattern placement; cloth cutting and dark marking.
 - 8. Fractice in work evaluation and recognition of mistakes (Mistakes are corrected by re-cutting the cloth into a smaller item or into stuffing material.)

B: Learning to Machine Sew

- Orientation to the machine and its operation;
- 2. Fractice sewing a straight line on one piece of cloth.
- Practice lining up two pieces of cloth to have an even double edge.
- 4. Practice sowing two pieces of cloth tegether making straight and curved seams.
- hr.ctice sowing zig-zag edges on eleth to prevent raveling;
- 6. Sewing tegether simple two-dimensional items.
- 7. Orientation to how cloth pieces out from patterns are assumbled (steps vary with item).
- 8: Practice seving complete items:
- Fractice evaluating work and correcting (re-sewing) mistrices:
- 10. Practice in simple sawing machine maintenance procedures.

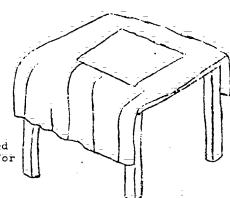


C. Learning to Draw Designs

- Orientation to fabric and identifying the straight grain.
- 2. Practice reproducing the design on scrap cloth using a continueter ruler. (Design must be placed along straight grain of fabric.)
- Orientation to locating designs on various actual garments and other items.

 (eg. The cuff design of the tunic is a specific number of centimeters from the cuff edge. The design drawn on the cullar involves a difficult curve of pattern.)
- Practice in reproducing the straight line design on garments and other items.
- Fractice in evaluating work and correcting mistakes:

 (Mistakes are corrected by washing the cloth and redrawing the design.)



D. Learning to Print Designs

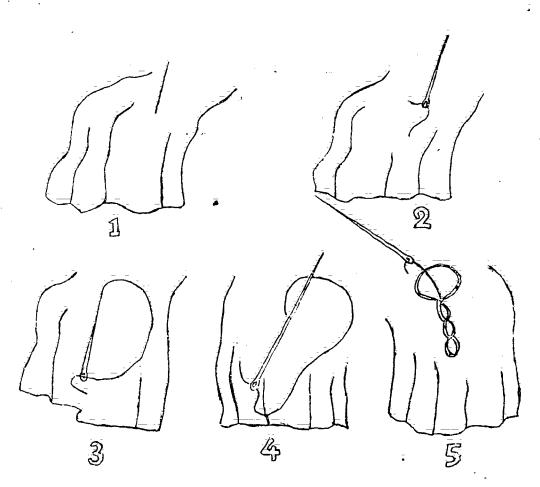
- 1. Orientation to what printed design patterns are used for particular items.
- 2.. Orientation to equipment (ink, plastic pattern and brush).
- 3. Plastic placing the design (plastic card with holes in the shape of the design) properly on the cloth.
- 4. Fractice mixing the ink to the proper consistency.
- 5. Practice using brush techniques to distribute the ink evenly over the plastic design, marking the cloth with dots.
- 6. Practic cleaning the plastic design after use.
- 7. Practice evaluating work and correcting mistakes.

 (Mistakes are corrected by washing the cloth and reprinting the design.)



1 ...rnin, to Emurcider

- 1: Imstruction and practice in sewing the chain stitch take 601cw):
- Frantice sewing the chain stitch on a straight; drawn line.
- 3: Fractice sewing additional chain stitch rows next to the first with no state between (filled embroidery).
- 4. Fractice embreidering a strip four centimeters wide and a meter long with filled embreidery, matching the drawn lines and the assigned color pattern.
- Fractice cvaluating and correcting mistakes. (Incorrect stitches are removed and the work re-done.)



Embreiderers with advanced skills do a blanket stitch on the edges of the tunies. This stitch requires more expertise than the chain stitch. Each embreiderer has been individually fitted with a leather thimble to protect insensitive finger parts.



F. Learning-to-Knit

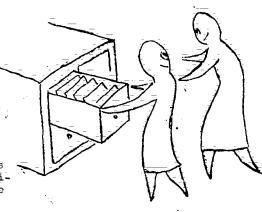
In order to just no knit a swenter, the student first knits a practice patch in which he does all the kinds of knitting work he must know to make a swenter.

- 1. Practicing casting on stitches.
- Practicing the knit stitch.
- 3. Fracticing the pearl stitch.
- 4. Frecticing rib knitting (knit and pearl cembinations).
- 5. Fracticing adding stitches.
- 6. Practicing decreasing stitches:
- 7. Making button holes.
- 8. Casting off stitches.
- 9. Making a sweater according to size specifications.
- 10. Sewing side and armhole seams.
- Practice evaluating work and identifying mistakes. (Mistakes are corrected by unraveling the work and re-knitting the item.)

G. Learning to Use Inventory Cards (See page 5 for sample.)

- Orientation to the inventory and and its purpose.
- 2: Orientation to the index for the inventory cards and the code number system:
- 3. Practice understanding the information on the card.
- 4. Fractice removing items from the storeroom and indicating this action on the card.
- Fractice delivering items to the storeroom and indicating this action on the card.
- 6. Fractice checking recorded totals with actual storerocm contents.

A working knowledge of the inventory system is a required skill for any traince being considered as a candidate to learn how to prepare orders which go to the various sales outlets or how to distribute work to craftsmen.





V: Considerations in Starting a Mandicraft frequent for Bandicapped Fersons

a. Describing the Proposed Project Administratively

in the proposed project to be a recognized part of a larger, more established rehabilitation offert?

a part of the larger effort on a trial basis? One which functions in isolation?

Fill the proposed project be budgeted for under a superstructure?

> Budgeted as an independent unit? Dependent on sales to cover expenses?

Temporarily subsidized? Permanently subsidized?

F. Describing What the Proposed Project Will Do for Individuals

- i. Citi the proposed project be primarily a training unit, a production unit or both?
- 2. Will the participants be taught handl-craft skills; management skills or both?
- When an individual completes the course of training; what opportunity has he for continued employment? Where and how will he make a living by what he learns?
- C. Narket Research What can a particular group of handicapped persons learn to do or make which will provide them with a regular income?

What are the traditional skills of the area?
What skills and abilities are needed to produce these things?

What materials are needed? Are they easily available?

To whom do boally-made craft items sell? Is this a stable, growing or declining market? What is the competition from mass-produced items:

Could this particular group of handicapped persons learn to make those items as well as those already being made? As cheaply?

Could this particular group of handicapped persons sell these items for enough money to cower those project expenses not paid for through another source?

What sales outlets are available? . Is exporting a realistic possibility?

What are the legal aspects of selling handicraft items made by handicapped persons?

Are there other projects in the area with which the new project could work cooperatively in bulk purchase of supplies and use of sales outlets?

D. Framework

How many persons (supervisors, teachers and trainees) will make up the initial unit?

What kind and size of space is needed for work, teaching, sales and storage?

What tools, equipment and furniture are needed?

What initial stock of consummable materials is needed?

E. Methodology

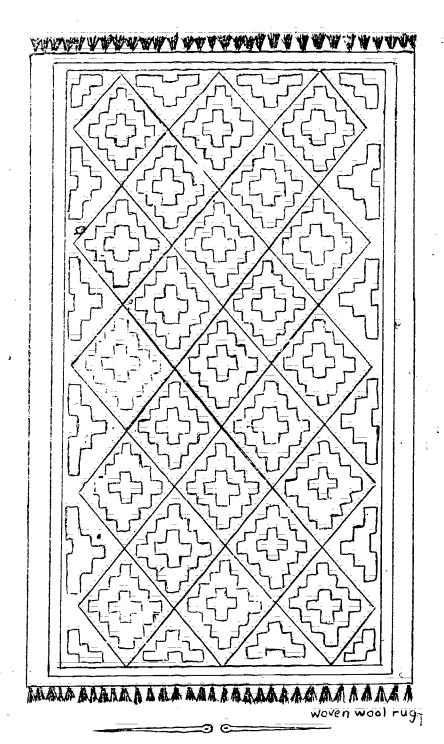
What are the work steps for performing each task and making each product which will be produced? (Task and lysis.)
What are the learning steps for learning to perform each task and make each item which will be produced?

F. Policy

What are the selection requirements (medical and other) for accepting applicants?
What are the selection requirements for teachers?
What is a complete job description (responsibilities) for management and supervisory positions?
How will everyone in the project be supported / paid?
What is the approximate time limit for learning each task and for teaching each group of trainees?
By what quality standards sill trainee work be evaluated?
By what measuring methods will the success of the project be evaluated?

G. Budget

what will be the initial costs of starting this project?
What will the operating costs of this project be?
(Salaries, materials, overhead)
What working capital is needed to support the project?



SECTION FOUR - THE PROJECT AND THE PUBLIC

I. Sales

- A. Craft Shop
- B. Other Sales Cutlets
- C. Market Dependency

II. Public Relations

- A. Activities
- B. Frinted Matter

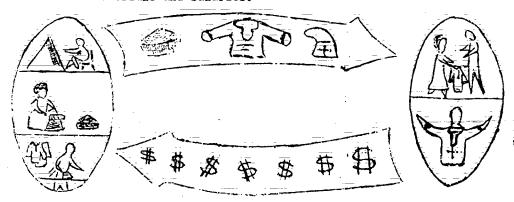
III. How to Assemble a Photo Pamphlet for Printing

- A. Planning
- B. Fractice Lay-Out
- C. Evaluation
- D. Frinting
- E. Distribution

THE PROJECT AND THE PUBLIC

VRF performs the obvious operation of offering finished products to the public in exchange for money which is used to provide craftsmen with work materials and salaries.

5



There is another, more subtle dimension of this relationship between VRP and the public. When buy-ers purchase VRP articles they are buying the work of handicapped persons. They are acknowledging that this work is equal in quality, usefullness, imagination and marketability to that of non-handicapped persons.

By selling the work of handicapped persons, a rehabilitation project communicates to the public in a tangible way the success of rehabilitation efforts.

I. VRF SALES

A. The Craft Shop

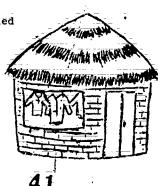
(The Craft Shop opened in 1973. Prior to that products were sold informally at social gatherings.)

The main sales outlet for VRP products is the Craft Shop, staffed and managed by volunteers and housed in a small Etnipian style building on the ALERT compound.

Though the shop is located inconveniently far from the city center and open only 15 hours per week (due to staff shortage), the project and shop receive many visitors. Some come primarily interested in buying the products, others come to observe the teaching and working operations of the project. The proximity

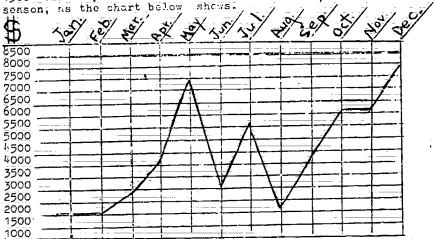
of the shop and the project center allows visitors to see the craftsmens skills as well as their finished

goods.



1. Craft Shop Sales

During 1974, sales of VRF products in the Craft Shop averaged 4500 dollars per month. Sales level is greatly effected by



2. Shop Contributors

Also dependent on Craft Shop sales to pay salaries and purchase supplies are three other leprosy rehabilitation groups whose participants are former or current ALERT patients. One weaves the fabric from which most VRP cloth products are made. VRP is their market. The other groups make embroidered and crocheted items: The Craft Shop is their main sales outlet.

192 persons

This means that 192 craftsmen and their families are dependent on Craft Shop sales for regular income.

Three other rehabilitation projects soll through the Craft Shop, but for them it is not a major outlet:

Medhane Alem Rehabilitation Center Addis Hiwot Resuttlement Project Reception Center of the Rehabilitation Agency

3. Shee Management

Management of the Craft Shop involves:

Coordinating a volunteer staff work schedule.

Maintaining shop procedures (inventory, record keeping).

Providing customers with information about products and
the projects where they were made.

Communicating sales information and advice to the production unit.

Shop arrangement and display.



B: Other VRP Cales Cutlet

1. Rulated barketing Units:

VRE products are cold in a showroom which displays the goods of several rehabilitation handleraft projects and is managed by the Rehabilitation Agency. Other such cooperative sales efforts are planned.

2. Commercial Narketing United

VET products are bold in two commercial outlets in addis Ababa; a large hetel and a clothing and gift boutique.

C: Market Dependency -

At present most VEF customers are non-Ethiopian. This is because the products have been designed to appear to foreigners who was a to buy thevel beoverifts and gifts: attracting the interest of this project to develop to its present state and achieve the good of the resident to develop to its present state and achieve the good of the resident configurations with wages.

Thrugh the VRP craftimes are accommically self-sufficient members of redicty, the money which page their salaries does not come from the society is which they live. Volunteers now managing the project realise that continued dependency on non-Ethiopian buyers is dependence on an unstable market. (Exporting, because of the legal and financial complexities involved in not a realistic possibility for the immediate future.)

By sciling the work of hendicapped persons, a rehabilitation project communicated to the public in a tangible way the success of rehabilitation efforts:

In an attempt to attract Ethiopian buyers and further inform the Ethiopian public about the success of leprosy rehabilitation, VRP is gradually re-designing selected items to appeal specifically to Ethiopian testes.

11. PUBLIC RELATIONS

In the early days of the VRT, the public was informed of the project and its work mainly by social contacts between welly for and potential contoners. As the project grow printed information was also used. Essential in the success of any public relations effort is identification of the threat group and the kind of response wanted from them.

A. Activities

Bazaars, coffee gatherings, public-speaking (at the invitation of interested cluss and other groups); fashion shows, open-house days at the project; etc.

B. Frinted Matter

Miscellaneous handouts available at social activities and in the shop, a price tag bearing the name and location of the project:



In 1975 a booklet was distributed by VRP. Its main purpose was to present the total picture of the project and answerthe questions most commonly asked by interested outsiders. The booklet was 8 pages in length and contained 12 photographs with brief captions in Amharic and English.

For those wishing to know more about the preparation of publication, here are the general steps:

A. Planning

1. Letermine who is to receive the booklet. Who is the target group of this publication / who will be informed by it?

Make a list of these people. 2. Determine what the message will be.

What questions have members of the target group asked / what are the most important questions / what are the answers / How can the mossage be written into a comprehensive, meaningful whole?

Write the message down. If the booklet is to be bi-lingual, begin translation.

3. Determine what photos or drawings will be used to illustrate, demonstrate or varify the message.

B. Practice Lay-Out

- 1. Determine the size and approximate number of pages for the bccklet.
- 2. Make a paper becklet that
- size, with that many pages.
 3. Experiment fitting the photos and sentences or captions onto the pages until you are satisfied.
- Make a second booklet. Type the captions on separate pieces of paper. Tape them in place. Tape the photos in place.



C. Evaluation

Show the model becklet to several people, those within the organization and those on the target reader list. Make any necessary changes or improvements.

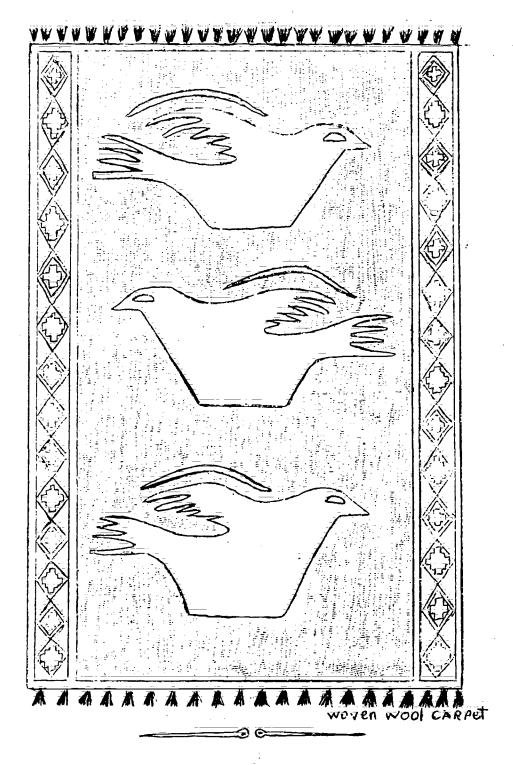
D. Frinting

Go to a printer and show him your model bocklet. Ask for an estimate of printing costs. Discuss all details of the final lay-out process and the procedure for checking the final proofs.

E. Distribution

Return to the target reader list and make any changes and additions necessary. Determine how these persons will receive the booklet.





SECTION- FIVE -- FRODUCTION

I. Regulating Froduction

- A. Necessary Information
- B. Drawing Conclusions
- C Froduction Schedule
- D. Furchasing, Supply and Distribution

II. Accepting Completed Work

- A. Quality Control
- B. Salaries

III. How to Determine Piecework Salaries

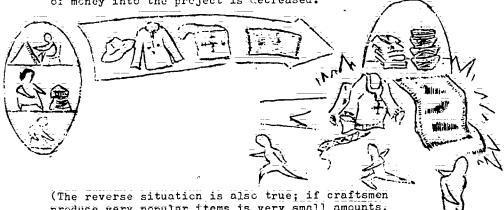
- A. Establishing a Base
- B. Time Study
- C. Adjustments
- D. Final Results



PRODUCTION

When a craftsman makes something, his materials and his salary cost money. The money is not returned to the project until the item is bought by a customer.

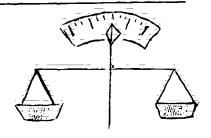
If craftsmen produce items which are not bought, the money spent by the project to produce the item is not replaced. The items accumulate in storage and the flow of money into the project is decreased.



(The reverse situation is also true; if craftsmen produce very popular items is very small amounts, buyers may become impatient and purchase what they want elsewhere. The flow of money into the project is below potential.

I. Regulating Production

VRP tries to regulate production by ccordinating production level with the level of sales. The aim is to have the project produce the same amount of goods as can be sold:



A. Necessary Information

In order to achieve a balance of what amount of goods can be produced and sold, certain information is needed.

- 1. Stock How many of each item are now waiting to be purchased?
- 2. Sales How many of each item has been bought over the past six months and what is the average number of items sold each month?

Example: Sales of adult sweaters, aug.-Jan.

nug.	Sept.	Oct.	Nov.	Dec.	Jan.
. 21	25	58	62	83	21

Total number of sweaters sold - 270
Average number of sweaters
sold per month - 47



3. Froduction Rates- How many of each item month / How many can be made?

Example: It takes about 38 working hours or one working week to make one adult-large sweater. There are 12 persons making this size of sweater. One knitter makes one sweater per week; 12 knitters make 12 sweaters per week; there are 48 sweaters made per month.

B. Drawing Conclusions

Example 1.

A project produces adult size sweaters and other knitted items. There are no finished sweaters in stock right now. The project sells an average of 45 sweaters per month. The 12 adult sweater knitters produce about 48 sweaters per month.

Though the knitters produce slightly more per month than are sold (average), the project manager decides that the production rate and the seles rate are close enough and the production rate does not need adjustment.

In the future, if the demand for sweaters increases, more knitters will be trained to make this kind of sweater. If sales decrease and sweaters begin to accumulate in the stock room, the manager will look at the sales record for that month of the previous year to see in the decrease is seasonal (i.e. temporary). If the 'slump' seems long-term, some knitters will be taught other work.

Example 2.

A project produces many handicraft items. The manager is studying the basket department. He finds that there are 57 baskets in storage waiting to be sold. The project sells an average of 12 baskets per month, which means there are enough baskets already made to meed the demand for the next five months. There are 9 basket weavers who produce a total of 36 baskets per month, three time the amount that can be sold.

The project must either sell more baskets or make fewer baskets, or both.

It is decided that the three best basket makers will learn to make another kind of basket, a style which the project manager feels will be easier to sell. The other six basket makers will be trained to do new work in other departments.

Example 3.

A project produces clay dishes. There are no dishes in stock and the project sells all that are mide. Many people come to buy dishes, but there are never enough. There are 6 dish-makers who produce 18 dishes per week. The project decides to train four more dish-makers. Ten dish-makers can produce 30 dishes per week, bringing the supply of dishes closer to the demand for them and increasing the amount of money coming into the project.



i roductior.—Schodule

The result of belancing production and sales is the production schedule. A production schedule is based on a certain length time and tells workers and departments how much work (how many items) must be completed within that time period.

L. Types of Production Schedules

- a. Stable This kind of schedule is the same for each time period. The VM knitters make certain items each week. Each knitter does the same kind and amount of work each week.
- with now time periods. The VRF rug weavers spend one month on one set of designs and sizes and the following month on an alternate set of rugs. Then they return to the work instructions of the first month.
- Fluctuating This production schedule type is used for isolated orders of either standardized or non-standardized items. The fabric seaver makes a bolt of cloth of a certain size and color design. His next piece of work and the next will each be different. He produces non-standardized items on a fluctuating schedule. If a demand for a particular kind of cloth develops, cloth production will be standardized and he may work with a stable or rotating schedule. The flux-acting schedule is used primarily for experimentation.
- d: Combination Sometimes two or more kinds of schedule are combined. The VRP sewing room has a masic rotating schedule in which weeks 1 and 3 are alike and weeks 2 and 4 are alike. There is also a fluxuating schedule for isolated orders of standardized items. After work on the regular schedule has been completed, the cutter beging working from the order board where isolated orders not included in the regular work are indicated.

KIND OF SCHEDULE VRP DEPARTMENTS

2. Types of Departments

Some VRF departments are independent; that is they take raw materials from the supply and return finished products to the stock of completed work ready for sale.

The carpet weavers take wool from stock and return rugs to stock. The fabric weaver, takes thread from stock and returns cloth to stock.

Most VPF departments work interdependently with one or more other departments. It is necessary to recordinate their production hat only with sales but with the production rates of related departments.

Spinners toke raw cotton from supply and return york to the knitter. Knitters use the yarn to make sweaters which are proported for sale.

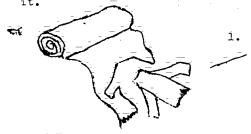
The sewing room takes each from supply and sends sewn items to stock or on to drawing. The drawers apply designs and send the items to the embroiderers reproduce the color patterns in thread on the drawn stems and return them to the lewing room for hand-rowing.



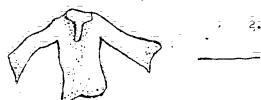


THE STORY OF A TUNIC

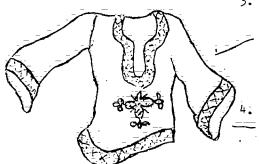
an example of a product which is the result of work in several related departments is the project's 'trademark' item, on embroidered shirt called a tunic. Here are the processes which go into making it.



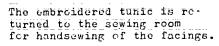
1. In the sewing room, the bulcke cloth is out according to the protern size listed on the production schedule. A machine sewer sews the garment together.

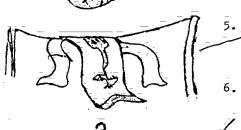


The partially sown tunic is sent to the drawing department to have a specific design drawn or printed on it.

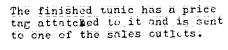


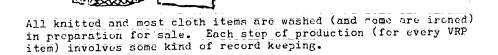
3. The marked tunic is issued to an embroiderer along with the color pattern indicated on the production schedule and the necessary thread.





The completed tunic is washed and ironed.





Furchasing, Supply and Distribution

In order for the project as a whole to meet its production schedules and fill orders, the row materials and supplies needed by the various departments must be ready for them.

Considerations in Tuying Supplies

- Cost The lower the cost of supplies, the lower the cost of producing items for sale. The VRF has found it cheaper to buy supplies in bulk (paying wholesale prices). The ability to purchase supplies in bulk is one advantage the project is able to offer its craftsmen.
- Availability If a project builds its production of materials which are readily available, production can be more regular. VRF has found locally produced goods both cheaper and more consistently available than imported goods.
- Amount How much of various supply items a project has at any one time depends of several variables; capital needed to purchase in bulk, storage space, production level, sales rates by season, etc.

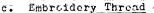
2. VRF Supplies

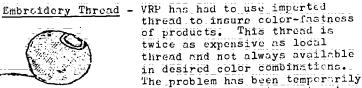
VRP uses a variety of materials and supplies in its production but is most dependent upon locally available amounts of wool, cotton, buloko and thread.

Weel - The wool is purchased in bulk from a local wool factory. VRP uses an average of 47 kilos of wool per month.



Raw Cotton - The raw cotton is purchased locally in bulk. VRF uses about a hundred kilos of raw cotton per month. The seeds are removed and sold to a vegetable oil factory. Of the one hundred kiles of raw cotton, only about 40 kiles of thread can be spun.





solved by the sharing of an order at discount prices. as the quality of local thread improves more items will be embroidered with it. VRF uses about 240 spools of thread per month.

- Buloko -The buloko is purchased from a sister agency. about 400 meters per month is used.
- Miscellaneous Other supplies such is scrylic yarn sewing thread, needles, buttons, snaps, lining cloth eto. are purchased in the Addis Ababa Merkato (market) and from other local distributers.

3. Furchasing Necessary Supplies

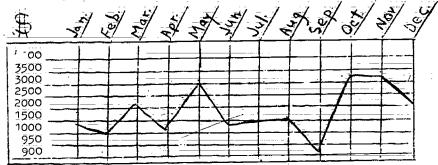
In order to keep craftsmen supplied with the things they need, certain information is necessary.

- a. Stock How much of any given supply item is currently in the supply room?
- b. Froduction How much of each supply item is needed to allow the project to meet its production schedules for a given time period?

 (eg. a month)
- c. Cost Where can these materials be purchased at the lowest cost? If the materials are not available through the usual source, where else can they be obtained?

4: VRP Purchasing Rates

The purchase of supplies is effected by availability, cost and production rates. Sometimes supplies are bought by the week or month; other times several months supply is purchased at once. During 1975 VRP spent an average of 2100 dellars per month on supplies.



5. Distribution of Naterials

After necessary supplies are purchased they are stored for distribution to the craftsmen.

The amount of work handed out is determined by the production schedule for each department and the amount of supplies and materials needed for each craftsman to do his job.

When materials are handed out the amount is subtracted from the supply inventory or from the records of a particular department. Workers sign for the work they have taken.

II. ACCEPTING COMPLETED WORK

When a craftsman completes his work on a finished or partially finished product, the item is checked for quality and recorded as received. Some items are weighed to determine the amount of material that has been used. If the craftsman has been given more than he has used, the remainder is used to begin his next task.

Every two weeks the work recorded for each person is computed into a total salary and a salary ticket is issued. On pay day the ticket is exchanged for cash.

A. Quality Control

The main concern in accepting work is quality. If the project produces items of poor quality, the items are not bought and the money invested in the making of the item (cost of materials and salaries) is not replaced into the general project operating fund.

Maintaining high quality standards is the key factor in successful sales for VRP. Therefor quality control is a primary concern in the production unit.

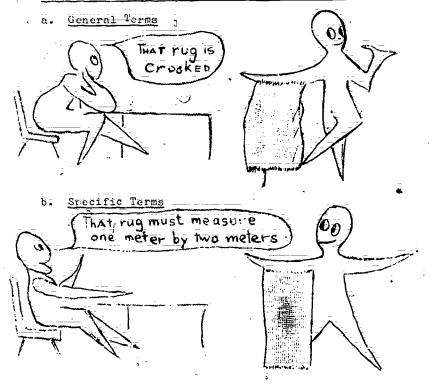
1. Supervision and Quality Control

Ideally the quality of work is controlled by the craftsman himself. In reality, external supervision is often needed to maintain consistent quality standards.

- a. Familiarity If a worker is making an item with which he is familiar, it is easier for him to exercise quality control on his own work. If a former fisherman is trained to weave fishnets, he knows that the entire net must be uniformly strong and the hole must be small enough to retain fish of a certain size, allowing water to escape.

 To a worker who is making an item that he does not have experience in using, errors in production will not be obvious. For example, if the same man is asked to apply the same skill to making net room dividers he must adjust his work to meet new quality standards. The end product must hang evenly from the hanging rod to the floor.
- b. Interdependency If an item on which a craftsman works goes on to another department for
 another process, the craftsman must understand
 something of the next worker's task in order
 to perform his own properly.
 Machine sewers working on pillows and toys
 need to realize that the seams must withstand
 not only normal stress but the added pressure
 of stuffing.

2. Communicating Quality Standards to Craftsmen



3. VRF Quality Standards

VRF has found specific quality standards accompanied by salary deductions for incorrect work to be the most effective way of maintaining quality control.

For incorrect work which cannot be redond the craftsman receives a lower salary. A rug which is not symmetrical cannot be rewayen. Because an imperfect rug must be sold at a lower price, the weaver of the imperfect rug receives a lower salary.

For work which can be redone, a part of the salary is withheld until the work is corrected and returned. A sweater which dots not meet the established measurements for a particular size is unrayeled and re-knitted. When the corrected sweater is returned the knitter is paid the remainder of his salary.

VRP found that it was necessary to standardize the amount to be deducted for each kind of mistake, post the information on bi-lingual charts for each department and explain the information to the assembled workers. This method of informing craftsmen clarifies management expectations for work quality standards and elliminate inconsistencies in deductions (avoiding accusations of favoritism).

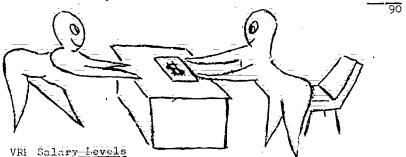
A variation of this jiedework-payment system is that of having craftsmen buy materials from the project and sel! completed work back to the project for the price of their criminal expense plus a sulary. This system places more responsibility on the worker and decreases the amount of direct supervision needed. VRP has not adorted this system because it would double the amount of financial bookkeeping that would need to be done, and because it is difficult to implement such a system in a project with so many interderendent departments:

B. Salaries

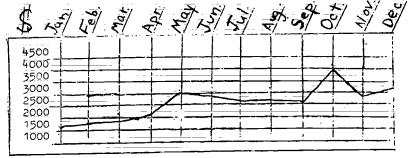
1. Types of Salaries

- Standard . worker receives a regular salary, the same amount every pay period.
- b. Piecewick A worker receives a specific amount of money for each piece of work he turns in. The mere work he turns in, the higher his total salary.
- Combination .. worker receives a regular salary, the same amount for each pay period, and specified amounts of money for piecowork he does in addition to his regular work.

VRI Participants receiving standard salaries......5 VRP Farticipants receiving piecework salaries.....81 VRF Participants receiving combination salaries.....4



When salaries are paid or a piecework system, the amount of tital money paid out each month fluctuates with production rates. Production rates are determined by the level of sales. Money paid out in calaries in 1974 averaged 2600 dellars per menth: The fluxuation in level is shown below.





3. Adjusting Ficcework Salaries

Early in 1975 volunteers began meeting frequently to discuss adjusting piecework salaries so that they would be uniform throughout the various departments and would be coordinated with revised production schedules. These are the steps they took.

- Research Examination of average monthly salaries for the previous six months to determine imbalance.
- b. Establishing a Base Computing the amount of money craftsmen can earn per hour to receive a living wage without threatening the project with bankruptcy.
- c. Time Study Measuring the amount of time at takes to each task for which piecework salaries are paid.
- d. Coordinating Results Making a new salary scale based on the information collected in the previous steps and the current production schedules (revised).

III: HOW TO DETERMINE PIECEWORK SALARIES

For these interested in the details which accompany the above steps, they are given here:

A. Establishing a Base

1. Determine the approximate number of working nours per day, week and menth for one person.

8.working hours per day.
5% working days per wook.
44 working hours per week.
4 working weeks per month.

176 working hours per menth.

- 2. Determine the base salary.

 If each VRF worker receives \$30.00 per month, the goal of paying a living wage is achieved. Menthly salaries will average 2700 dellars per menth, slightly higher than the 1974 monthly average.

 (Since workers in management positions receive more than this amount and some part-time workers receive less.)
- 3. Divide the number of working hours per month into the amount of money per month which constitutes the base salary. The result is the amount of money per hour on which the final salary will be base.

\$30.00 per-m	nth	<u> </u>	12	cents
175 working	hours per	menth		per hour

•	the contract of the contract o	
15 cents per	haur \$ 26.40 per mo.	
16 cents per	hour 20.10 per mo.	
17 cents per	hour 29.92 per mc.	
18 cents per	hour	
19 cents per	hcur	
20 cents per	hour	
22 cents per	hour 38.72 per mo.	
25 cents per	hour 44.00 per mo.	



B. Time Study

Ask workmen to workmen to work where they can be timed doing each task. Determine the average length of time needed to accomplish each task.

Example: Four craftsmen embroider designs on pillowa.

- It takes craftsman no. 1 three hours and thirty minutes.

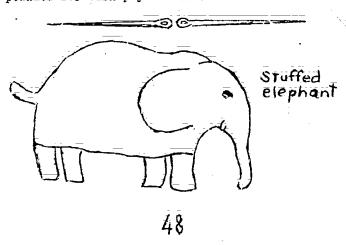
- It takes craftsman no. 2 four hours and fiftee minutes. It takes craftsman no. 3 four hours and thirty minutes. It takes craftsman no. 4 three hours and forty-five minutes.
- It takes four craftsmen a total of 16 hours to embroider designs on four pillow covers.
- It takes one craftsman an average of four hours to do this task.
- 2. Assemble this information for each task in the project which is done by workers receiving a piecework salary.

C. Adjustments

- 1. Multiply the number of hours it takes to do each piece of work by the base per hour salary.
 - Pillow cover = 4 hours x 17 cents per hour = 68 cents
- Examine the production schedule to see if each worker can make a living wage at his present work and the base per hour salary. (i.e. It a man's only job is to embraider pillow_covers, and the production cchedule calls for only 15 villow covers to be embroidered per month, he cannot make a living wage based on a salary of 68 cents per pillow cover.)

D. Final Results

Determine the final salary scale for each piecework task. (Sometimes the base salary per hour is raised or lowered depending on the production schedule. Amounts are usually rounded off to the nearest five cents to avoid having to use pennies for cash payment of salaries.)



SECTION SIX - RECORD KEEPING

I. VRF Record Keeping

- A. Records Fertaining to Feople
- B. Records Fertaining to Things
- C. Records Pertaining to Production Level
- D. Records Pertaining to Costing
- E. Records Fertaining to Fricing

II. Considerations in Froducing a New Product

- A. Marketability
- B. Froduction Cost
- C. Production Procedure

fil. Overall Considerations



RECORD KEEPING

Records of information are kept to help answer questions and make decisions. The him of record keeping is to organize information in a way that it can be most easily used.

In the absence of experience of professional advice, a general rule for record keeping is "Write Everything Down" and eventually a system of organization develops which suits the individual situations.

I. VRP Record Keeping

The descriptions of records below represent systems VRP has found necessary and useful. In the past, all records were kept in English. Now VPP is implementing a bi-lingual record keeping system.

A. Records Pertaining to Feerle

- 1. Personnel File Cards Information about each worker is kept on file cards, organized by department (see p.13).
- Z. Skills Charts These charts indicate for quick reference how many persons can do each task. It tells whether workers can teach the skill; are independent workers or are students. The information is useful in adjusting production.

	Emb.	Knit	Crochet
Worker A	İ		
Werker B	T		
Worker C		_ S	
Worker D		I	S
		<u> </u>	

I=independent worker, T=teacher, S=student

Worker T is an independent worker in the embroidery department.

Worker B is an independent embraiderer who is good enough at his work to teach others.

Worker C is an independent embroiderer whi is learning to knit.

VRF has found it advantageous to have workers trained to work in more than one department and to be able to perform more than one task in a department. That way, if demand for a certain item dreps and production of it is out back, workers can be transfered to another department without an interruption in their salaries.



F. Records Fertaining to Things (Inventory)

Inventory records tell how much of everything there is in the project and its lecation.

1. Types of Inventory Recepte

Inventory of concummable supplies.
Inventory of their, furniture and other property.
Inventory of partially finished and finished products.

2. Uning le Inventory Card

(The number in the ter right head corner is a cade number. Each item for which there is an inventory cord has a number: The carls are arranged in numerical inter. An index of olde numbers and item names accompanies each set feards.)

!	iptick hart ry: Large	Location	Storer 9	6 P)
Dota	Issued te/frem	koceived	Issued	Balance
Junel	from sew	16		16
June 3	to shop.	-	10	6
June 5	to shop	_	6	Ç
June 7	from sew	20	_	20
	<u> </u>		-	

a. Interpreting the Card

- On June 1, 16 large hats were received from the sowing room and put into the stirericm.
- On June 3, 10 large hats were sent to the shop; leaving 6 in the storeroom.
- On June 5, 6 more hats were sent to the shop, leaving a balance of none.
- On June 7, 20 hats were received from the sewin; room making a balance of 20 hats in stock.

b. Determining the Amount of Money Tied Up

If hats cost 4 dollars each to produce, the 20 hats in the storeroom represent an investment of \$80.00.

If hats sell for 5 dollars each, the 20 hats represent \$100.00 in potential cash returns when they are sold.

Two columns can be included at the right of the inventory card called 'Total Investment'

and 'Extential Returns'



. Records Fortaining to includion Level

- Received of Sales = Now much / how many of each item was sold luring each menth of the post year and what in the monthly everyors (Tables from sales receipts.)
- ... Record of Prepared Stock How many of each item is waiting to be being ht? (Taker from sterenoom inventory.)
- Record of available Builtien How much of each material is now in the ek? (Taken from inventory of consummable supplies.)
- 4. Shills Shorts How many persons can do each task?
- 5. Time Study What is the swormage length of time it takes to do such task and produce each I tem?
- 6: Froduction in Detail Exactly what amount of denominable materials go into making each item?
- 7: Work Distribution and Callection Records (dated)
- 6. Salary Payment Records (dated)

D. Rec ris Fertaining to Cesting

- 1: <u>lurchestiff Costs</u> = What is the purchasing cost of each material used in the project by unit and in bulk?
- 2. Itemized Freduction Costs what is the cost of consummable materials which re into the making of each item produced.

Example - Here is the cost of consummable materials which $n_{\rm c}$ into making an adult tunic. (The figures have been rounded for easier illustration.)

Buloko- 2% motors;	x	∜3.00	$\bar{\mathbf{r}}\cdot\mathbf{e}\bar{\mathbf{r}}$	meter	=	17.50
Dining cloth- 1/9 motor	 X	. 90	$\tilde{p}e\tilde{r}$	meter	_ =	•10
Nachine and						
hond sowing thrend . 1/3 spec	:1 :	i :30	per	speci	==	:1 0
Embroidery thread - 3% balls	3)	1.00	her	bāli	_	3.50
Tuth1 cost o				,	=	\$ 11.20 \$ 11:20

5. Salary Scale - Set piecework wage amounts based on time study. (Figures adjusted for illustration)

Example	- For making a tunic these salaries	are paid
	Cutter	\$.50
	Machino Sewer	1.00
	Embroiderer	
	Hand Sewer	-

Total Eabor Cost...... \$13:00



4. Friduction Cost For Item - This is found by adding the cost of materials and the cost of Impor for each item.

5: Cverhead and Operating Expenses - All the expenses of the project which are not specifically enaft materials and piecework salaries must be paid for too.

Non-liecework salarios.
Rent and utility bills.
Maintenance on equipment.
Transport espenses.
Laundry expenses.
Paper, pencils, raper clips etc.

Overhead expenses cannot be computed for each item preduced in the same way as production cost. It is necessary to compute overhead as a whole and figure it as a percentage of the basic production cost.

Example = (Figures rounded for illustration)

Overhead expenses...... \$ 500 per mo.

The overhead expenses of 500 dollars are 10% of the basic production costs per month.

- E. Records Fortaining to Pricing
 - 1. <u>Freduction Cost</u> :- Cost of materials and labor for each item.
 - 2. Cverhand Cost in Percent

Example Adult Tunic

The price of the tunic must return a minimum of \$26.60 to the project. The tunic sells for \$35.00, leaving a profit margin of \$8.40 or about 24%

- 11. Considerations in Evaluating a New Froduct
 - ... Marketability Who will buy it? For what price?
 - B. Freduction Cost How much will it cost the project to produce the item? How much of a profit margin can be made?
 - C. Iroduction Steps How will this item be made?

(The profit margin an some items allows the project to produce other items at cost and to cover the cost of training.)



III. Overall Considerations

The real reason for keeping records is to allow management personnel to answer two important questions about projects.

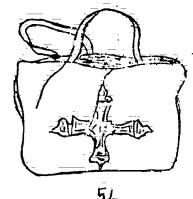
Is the project operating at a financial loss or a financial gain? [Does the money coming into the project fall below or exceed the money coming in?)

Is the project meeting, exceeding or falling below demand for the items made?

The chart below shows how finances and production operate together. In the blocks are suggestions for stabilizing imbalance between the two factors of money and production.

WI DARWII	Operating at a Financial Gain	Operating at a Financial Loss			
Meeting Demand	(0.0)	 Decrease production costs. Increase prices. Try making and selling a new item to increase sales. 			
Exceeding Demand	Reduce pro- duction level to meet demand.	1. Reduce production level. 2. Reduce production costs; 3. Try making and selling a new item to increase sales.			
Falling Below Demand	Increase pro- duction level to meet demand.	1. Increase production level. 2. Increase prices. 3. Reduce production costs.			

Example - " project is operating at a financial gain but falling below demand. They can sell more items. The suggestion is that they increase production to meet demand, thus bringing more money into the project. (Lower left side box.)



Embroidered Purse



CONCLUDING REMARKS

If you give a man a fish, you give him food for a day.

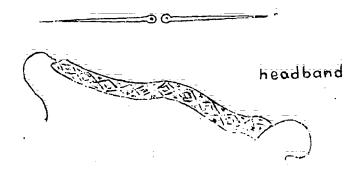
If you teach him how to fish, he can but everyday.

- Oriental Froverb-

 Training is useful only if the trained can be assured of regular employment and a cash income upon completion of training.

What a person is trained to do should be determined through market research.

- A. Kny training course should emphasize the abilities of the participants (rather than their disabilities).
- B. May course of study should also encourage workers towords responsible work habits.
- II. The level of sales determines the level of production.
 - A: The maintaining of strict quality control standards is essential for maintaining sales.
 - B. These individuals restantible for production must understand the relationship between quality and sales and between sales and project survival.
- III. The circulation of money and goods is maintained by the application of business management skills. Therough record keeping provides information on which management decisions can be based.
- IV. A clear idea of the desired direction of the project is necessary for establishing project priorities.





SUGGESTED RESOURCE PUBLICATIONS

The brok list which follows contains publications which may be useful and interesting to persons involved in small handicraft businesses. They can be ordered from the publishers.

BUSINESS

Teccunting for Everyday Profit.... A practical guide to business management systems for persons not trained in accounting.

Simon and Shuster
1 West 39th Street
Now York, N.Y.

Small Business Administration..... This organization prints many publications on business management topics. Request a catalog.

CRAFT IDEAS - GENERAL

The Complete Book of

Frogressive Knitting

Ida Riley Duncan

1966

Liveright Fublishing Co.
386 Park Ayenue South

New York, N.T.

10016



PYETNG

Brecklin, butunical Garden 1973 - Fublished Quarterly 2601 Sinner Street 511 1711

al ayeing and plant selection.

num Desch 1.71 Watson Guptil Fublishers 165 West 46th Street New Y.rk; N.Y.

ilant-color charts and complete. instructions for preparing per and using vegetable dyes:

WELTING

Mary Motes Atwater MacMillan lublishers 1954 New York, N.Y.

of nand weaving. It also conthins a section on the use of handicraft activities in eccupational therapy.

Ester Warner Dendel 1271. Countryside Fress Division of Farm Journal Inc. Fhidelphia, Pennsylvania

techniques and new idens for weaving without a formal lcom.

Peter Collingwood 1963 Watson Guptil Eublishers 165 West 46th Street New York; K.Y.

The Techniques of Rug Weaving This book is well illustrated and contains detailed informatic. which applies to other types of weaving as well.

To Build or Buy a Loom ... Harriet Tidbald---1968 Craft and Hobby Box 626 Facific Grave, California ... The excellent diagrams and clear explanations will save the render time and money in selecting a loom.

Editors of Sunset Books - 197h. Lane Books Meale Fark, California U.S....

Weaving Techniques and Projects ... This well illustrated book contains infarmation on several kinds of looms and describes simple projects.

SEN ING

McCall's H. w Te Fit Book Nothillia littern Com any 230 Fark Lyonue Nor York; N.Y.

..This book centains useful information on fabric types, . advice for pattern selection; and instructions for adjusting patterns to fit men, wemen and children.

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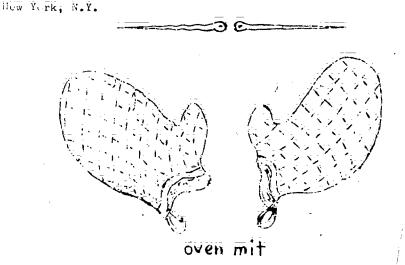
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Make Your Own Clothes Book useful book for sewing Sharen Rosenburg and John Wiener without patterns. 1971 Straight Arrow Werld Fublishing Co. 110 East 59th Street



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